

**NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11-14-73		JAN 11 1974	
Company Samedan Oil Corporation				Connection NONE			
Pool Undesignated				Formation Morrow Gas		Unit ARTESIA, OFFICE	
Completion Date 11-9-73		Total Depth 9277' 9520		Plug Back TD 9236' 9277		Elevation 3359' GL+11'	
Csg. Size 4 1/2	Wt. 11.6	d 4.000	Set At 9461'	Perforations: From 9207' To 9233'		Farm or Lease Name Fanning Comm	
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 9180'	Perforations: From Open To Ended		Well No. 1	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 9130'		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 168° 9120'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 9220'		H -	G _g 0.626	% CO ₂ 0.42	% N ₂ 6.09	% H ₂ S 0.00	Prover X
							Meter Run -
							Taps -

FLOW DATA						TUBING DATA		CASING DATA		Duration	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g. DWT	Temp. °F	Press. p.s.i.g.	Temp. °F	of Flow
SI							2769		PACKER		91.0
1.	2	12/64	3/4	100	-	28	2067	74			1.0
2.	2	10/64	3/8	362	-	30	2285	74			1.0
3.	2	8/64	1/4	646	-	32	2312	74			1.0
4.	2	6/64	3/16	770	-	36	2535	72			1.0
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	9.453	-	113.2	1.032	1.264	1.000	1395.8
2	2.378	-	375.2	1.030	1.264	1.037	1204.6
3	1.087	-	659.2	1.028	1.264	1.063	989.9
4	0.6082	-	783.2	1.024	1.264	1.076	663.4
5							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1.	0.17	488	1.42	-	A.P.I. Gravity of Liquid Hydrocarbons	-	Deg.
2.	0.57	490	1.42	0.930	Specific Gravity Separator Gas	0.626	XXXXXXXXXX
3.	0.99	492	1.43	0.885	Specific Gravity Flowing Fluid	XXXXXX	
4.	1.18	496	1.43	0.863	Critical Pressure	663	P.S.I.A.
5.					Critical Temperature	344	R

P _c 3572.2 P _c ² 12782.1			
NO.	P _t ²	P _w ²	P _w ²
1	-	2713.2	7361.5
2	-	2844.2	8089.5
3	-	3022.2	9133.7
4	-	3233.2	10453.6
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.358$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2970$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.128$

Absolute Open Flow	2970	Mcf/d @ 15.025	Angle of Slope @	48° 39'	Slope, n	0.880
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Remarks: * BHP @ (-5861') 9220' used for pressure calculations

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	COLEMAN PET.ENG.CO.	Joe A. Coleman	Joe A. Coleman